

Distribution of *Balclutha* in the Bahama Islands, Newfoundland, and Panama¹ (Homoptera: Cicadellidae)

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RECEIVED FOR PUBLICATION JUNE 4, 1971

Abstract: New locality records are presented for eight species of *Balclutha* from the Bahama Islands: *B. caldwelli*, *curvata*, *flavescens*, *floridana*, *guajanae*, *hebe*, *incisa*, and *neglecta*. *B. arctica* is recorded from Newfoundland and *B. delongi* from Panama; both are new distributional records. Supplementary information on size, nomenclature, and method of collecting is included.

During the summer of 1970, I determined more than 875 specimens of *Balclutha* spp. sent to me by the American Museum of Natural History. More than 700 of these were collected from the Bahama Islands, most during the Van Voast—AMNH Bahamas Islands Expeditions between January and May of 1953. A study of the specimens revealed no new taxa, but because they constitute new locality records, the eight species determined are reported here. In addition, *B. arctica* is reported from Newfoundland and *B. delongi* from Panama. The specimens of *delongi* were lent by Dr. James P. Kramer from the collection of the United States National Museum.

Three species, *incisa*, *caldwelli*, and *hebe*, were taken at lights in the Bahamas. None of the species determined are endemic to the Bahamas; all species determined are rather widely distributed in the West Indies and surrounding areas. Measurements are reported only when they exceed the ranges previously recorded for the Western Hemisphere (Blocker 1967 and 1968).

Species found in the Bahama Islands are:

Balclutha caldwelli Blocker. Thirty-six specimens: Abaco Cays, Elbow Cay, Hope Town, 4 May 1953, Hayden; Eleuthera Isl., New Portsmouth (Rock Sound), 28 Mar. 1953, Hayden and Giovannoli; Great Inagua Isl., 12 miles N Matthew Town, 29 Jan. 1953, Hayden and Giovannoli; New Providence Isl., Nassau, 3 Jan. 1953, at light, Hayden.

NOTES: Dorsal length of males ranged from 3.0 to 3.5 mm. A widespread tropical and subtropical species.

Balclutha curvata Caldwell. Twenty-eight specimens: Crooked Isl., Landrail Point, 5 Mar. 1953, Hayden; Great Inagua Isl., 12 miles N Matthew Town, 29

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Jan. 1953, Hayden and Giovannoli; Long Isl., Deadman's Cay, 11 Mar. 1953, Hayden.

NOTES: Dorsal length of males ranged from 2.7 to 2.9 mm; pronotal width from .725 to .800 mm. Closest previous records are Florida and Puerto Rico.

Balclutha flavescens (Baker). Ten specimens: Great Inagua Isl., Matthew Town, 31 Jan. 1953, Hayden and Giovannoli; South Bimini Isl., Bahamas, B. W. I., Aug. 1951, C. and P. Vaurie.

NOTE: Closest previous records, Florida and Cuba.

Balclutha floridana (DeLong and Davidson). Thirty-six specimens: Abaco Cays, Allen's Cay, 9 May 1953, Hayden and Giovannoli; Eleuthera Isl., Jame's Cistern, 1 Apr. 1953, Hayden and Giovannoli; Exuma Cays, Staniard Cay, 13 Jan. 1953, Hayden; Grand Bahama Isl., West End, 12 May 1953, Hayden and Rabb; Great Abaco Isl., Marsh Harbour, 6 May 1953, Hayden and Giovannoli; New Providence Isl., Nassau, 3 Jan. 1953, Hayden and Giovannoli; Rum Cay, nr. Port Nelson, 16 Mar. 1953, Hayden.

NOTE: A common and widespread species; closest previous records, Florida and Cuba.

Balclutha guajanae (DeLong). Seventeen specimens: Cat Isl., Bennett's Harbour, 24 Mar. 1953, Hayden; Exuma Cays, Staniard Cay, 13 Jan. 1953, Hayden; Great Inagua Isl., Matthew Town, 31 Jan. 1953, Hayden and Rabb; Turks and Caicos Isl., Grand Turk Isl., 19 Feb. 1953, Hayden and Giovannoli.

NOTES: Theron (1970) has stated that *guajanae*, *rosea* (Scott), and *longiforma* (Cogan) are very closely related and probably conspecific. A study of these forms from the entire range of occurrence is indicated. Range of *guajanae* in the Western Hemisphere is primarily tropical and subtropical; *rosea* is primarily European and *longiforma* is reported from Africa.

Balclutha hebe (Kirkaldy). Forty-seven specimens: Crooked Isl., Landrail Point, 5 Mar. 1953, Hayden; Eleuthera Isl., New Portsmouth (Rock Sound), 28 Mar. 1953, Hayden; Grand Bahama Isl., West End, 12 May 1953, Hayden and Rabb; Great Abaco Isl., Marsh Harbour, 6 May 1953, Hayden and Giovannoli; New Providence Isl., Nassau, 3 Jan. 1953, at light, Hayden.

NOTE: A widespread species, primarily in tropical and subtropical areas.

Balclutha incisa (Matsumura). Three hundred twenty-eight specimens: Abaco Cays, Elbow Cay, Hope Town, 4 May 1953, Hayden; Berry Isl., Little Harbour Cay, 1 May 1953, Hayden and Giovannoli; Cat. Isl., Bennett's Harbour, 24 Mar. 1953, Hayden and Giovannoli; Eleuthera Isl., Jame's Cistern, 1 Apr. 1953, at

light, Hayden and Giovannoli; Eleuthera Isl., New Portsmouth (Rock Sound), 28 Mar. 1953, Hayden; Exuma Cays, Darby Isl., 18 Jan. 1953, Hayden and Giovannoli; Exuma Cays, Big Farmer's Cay, 13 Jan. 1953, Hayden; Grand Bahama Isl., West End, 12 May 1953, Hayden and Rabb; New Providence Isl., Nassau, 16 Apr. 1953, at light, Hayden; Turks and Caico Isls., Grand Turk Isls., 19 Feb. 1953, Hayden; Turks and Caico Isls., Long Cay (S of S Caicos Isl.), 10 Feb. 1953, Hayden.

NOTE: A widespread species in temperate to tropical areas.

Balclutha neglecta (DeLong and Davidson). One hundred sixty-eight specimens: Andros Isl., Lisbon Creek (nr. S Bight), 28 Apr. 1953, Hayden; Andros Isl., Mangrove Cay, 26 Apr. 1953, Hayden; Crooked Isl., Landrail Point, 5 Mar. 1953, Hayden; Exuma Cays, Staniard Cay, 13 Jan. 1953, Hayden; Long Isl., Clarence Town, 13 Mar. 1953, Hayden and Giovannoli; Long Isl., Deadman's Cay, 11 Mar. 1953, Hayden; Mayaguana Isl., nr. Abraham Bay, 3 Mar. 1953, Hayden; San Salvador Isl., nr. Cockburn Town, 18 Mar. 1953, Giovannoli and Rabb; South Bimini Isl., Bahamas, B. W. I., May 1951, Cazier and Gertsch.

NOTE: A widespread species in temperate to tropical areas.

New distributional records from areas other than the Bahama Islands are:

Balclutha arctica Beirne. One male specimen from: Bay of Islands, Newfoundland, 7-8 Aug. (no year). Previously this species has not been reported east of Montana or the Northwest Territories.

Balclutha delongi Blocker. One male specimen from Tocumen, Panama, 17 Nov. 1952 and two males from Port of Chorrera, Panama, 8 Sept. 1952. All were collected at lights by F. S. Blanton. Previously this species has been reported only from Matto Grosso, Brazil.

Literature Cited

- BLOCKER, H. D. 1967. A classification of the Western Hemisphere *Balclutha* (Homoptera: Cicadellidae). *Proc. U. S. National Museum* **122**(3581): 1-55.
- . 1968. A new species of *Balclutha* from Brazil and notes on new distribution of some previously named species (Homoptera: Cicadellidae). *J. Kansas Entomol. Soc.* **41**: 207-9.
- THERON, J. G. 1970. Redescription of ten of Cogan's species of South African Cicadelloidea (Hemiptera). *J. Entomol. Soc. South Africa* **33**: 303-23.